allb/claims

An exhaust device for internal combustion engines having a pipe element (1) inside which there flow the α exhaust gases, the said pipe element (1) having a housing a. in which a measuring transducer such as an oxygen sensor can be mounted, characterized in that the said housing (2) is formed by a hole prolonged by a bush (3) made \directly through the wall of the said pipe element \mathcal{U} (1), the said housing 12) being obtained from a first flow-drilling operation followed by a second operation of thread \tapping by deformation, the said flow-drilling operation comprising drilling through the wall with a tool, a speed and a penetration force adapted to cause melting and upsetting of the material around the tool in proportion to the advance of this tool, until a bush of required height and diameter is obtained.

2.

12 An exhaust device for internal combustion engines according to claim 1, characterized in that the said pipe delement (1) is provided with a wall of substantially uniform thickness of between 1 and 3 mm.

An exhaust device for internal combustion engines according to any one of claims 1 to 2, characterized in that the said pipe element (1) is provided with a wall made of stainless metal alloy.

cess for making an exhaust device according to claims 1 to 3, characterized in that the said tool comprises an ogival mandrel.

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